Title (en)

PROTECTING A VEHICLE ELECTRONIC SYSTEM

Title (de)

SCHUTZ EINES ELEKTRONISCHEN FAHRZEUGSYSTEMS

Title (fr)

PROTECTION D'UN SYSTÈME ÉLECTRONIQUE DE VÉHICULE

Publication

EP 3825886 A1 20210526 (EN)

Application

EP 21151977 A 20130328

Priority

- US 201261617188 P 20120329
- EP 20150017 A 20130328
- EP 13720607 A 20130328
- IL 2013050290 W 20130328

Abstract (en)

Security system for protecting a vehicle electronic system by selectively intervening in the communications path in order to prevent the arrival of malicious messages at ECUs, in particular at the safety critical ECUs. The security system includes a filter which prevents illegal messages sent by any system or device communicating over a vehicle communications bus from reaching their destination. The filter may, at its discretion according to preconfigured rules, send messages as is, block messages, change the content of the messages, request authentication or limit the rate such messages can be delivered, by buffering the messages and sending them only in preconfigured intervals.

IPC 8 full level

G06F 21/60 (2013.01); **G06F 21/85** (2013.01); **H04L 12/40** (2006.01); **H04L 29/06** (2006.01); **H04L 29/08** (2006.01)

CPC (source: EP US)

G06F 21/604 (2013.01 - US); **G06F 21/606** (2013.01 - EP); **G06F 21/6218** (2013.01 - US); **G06F 21/85** (2013.01 - EP); **H04L 12/40143** (2013.01 - EP US); **H04L 12/40169** (2013.01 - EP); **H04L 63/0263** (2013.01 - EP); **H04L 63/0281** (2013.01 - EP); **H04L 63/08** (2013.01 - EP); **H04L 63/14** (2013.01 - EP US); **H04L 63/1425** (2013.01 - EP); H04L 63/1458 (2013.01 - EP US); H04L 67/12 (2013.01 - EP); H04L 2012/40215 (2013.01 - US); H04W 4/48 (2018.02 - EP US)

Citation (applicant)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013144962 A1 20131003; EP 2832070 A1 20150204; EP 2832070 B1 20200520; EP 3651437 A1 20200513; EP 3651437 B1 20210224; EP 3825886 A1 20210526; EP 3825886 B1 20241002; ES 2805290 T3 20210211; US 10002258 B2 20180619; US 10534922 B2 20200114; US 11120149 B2 20210914; US 11651088 B2 20230516; US 11709950 B2 20230725; US 2015020152 A1 20150115; US 2018004964 A1 20180104; US 2018012030 A1 20180111; US 2019303588 A1 20191003; US 2020104515 A1 20200402; US 2021382999 A1 20211209; US 2022318408 A1 20221006; US 2023315874 A1 20231005; US 9881165 B2 20180130; US 9965636 B2 20180508

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